

San Diego DX Club Bulletin

June 2022



QRO Oh Oh Oh

MEETING PROGRAM

Our presenter will be Larry Serra, N6NC. He will give a presentation on 40 meter propagation studies

MEETING NOTICE

The June, 2022 meeting of the SDDXC will be held on Wednesday, June 22nd at 6:30 P.M. PDST at Elijah's Restaurant located at 7061 Clairemont Mesa Boulevard as well as on Zoom. Come early for social hour and dinner.

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From the Prez . . .

Miguel, KJ6YXI

Our next meeting will be held on Wednesday, June 22nd at 6:30 P.M. at Elijah's Restaurant at 7061 Clairemont Mesa Blvd. Come early for social hour and dinner.

A Zoom link has also been set up (see Zoom invitation below).

Our presenter this month will be Larry Serra, N6NC. He will give a presentation on 40 meter propagation studies.

SDDXC May Meeting

Time: June 22, 2022 06:30 P.M. Pacific Daylight Time (US and Canada)

To Join Zoom Meeting

[https://us02web.zoom.us/j/89489505200?](https://us02web.zoom.us/j/89489505200?pwd=blZwSm9NRnNaVTdzbFcxNWdyTkZFQT09)

[pwd=blZwSm9NRnNaVTdzbFcxNWdyTkZFQT09](https://us02web.zoom.us/j/89489505200?pwd=blZwSm9NRnNaVTdzbFcxNWdyTkZFQT09)

Meeting ID: 894 8950 5200

Passcode: 077257

One tap mobile

+16699006833,,89489505200#,,,,*077257# US (San Jose)

+12532158782,,89489505200#,,,,*077257# US (Tacoma)

Dial by your location

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 312 626 6799 US (Chicago)

+1 929 436 2866 US (New York)

+1 301 715 8592 US (Washington DC)

Meeting ID: 894 8950 5200

Passcode: 077257

Find your local number: [https://us02web.zoom.us/j/89489505200?](https://us02web.zoom.us/j/89489505200?pwd=blZwSm9NRnNaVTdzbFcxNWdyTkZFQT09)

Link to the Zoom recording of the May, 2022 meeting:

No password is required.

[https://us02web.zoom.us/rec/share/](https://us02web.zoom.us/rec/share/zTsaFUVIFAMV4c1c7aKjubckAlmt3q35vA8eDY81KgogMNB03NxgiG-PyZY5L_27.wQGLHfSigdYxjVOF)

[zTsaFUVIFAMV4c1c7aKjubckAlmt3q35vA8eDY81KgogMNB03NxgiG-PyZY5L_27.wQGLHfSigdYxjVOF](https://us02web.zoom.us/rec/share/zTsaFUVIFAMV4c1c7aKjubckAlmt3q35vA8eDY81KgogMNB03NxgiG-PyZY5L_27.wQGLHfSigdYxjVOF)

Miguel, KJ6YXI

Secretary/Treasurer Reports

Randy, KQ6RS

SDDXC Meeting Minutes, May 25, 2022

Our May meeting was held in person at Elijah's Restaurant and on Zoom. Twenty-Four members and one guest attended (11 in person and 14 on Zoom). Our guest was Peter Singer, K3PS.

At 6:30 P.M. Gayle Olson, K6GO called the meeting to order.

At 6:39 P.M. Carl Luetzelschwab, K9LA gave a presentation on Antennas for Higher Bands, followed by a question-and-answer session.

From 7:30 P.M. to 7:38 P.M. we took a break.

There was no old business.

New business: There has not yet been any mention of a summer bash. This is something the board could discuss.

At 7:39 P.M. we started our round table.

At 8:02 P.M. the meeting adjourned.

Treasurer's Report

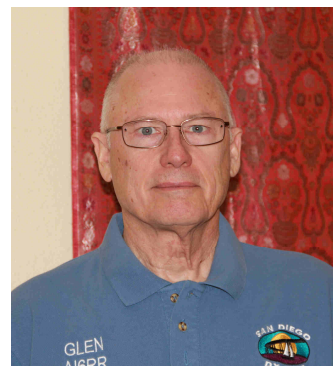
Income for May:	\$39.51 for membership dues
Expenses for May:	None
Balance on 6/8/2022 was	\$6,450.00



Randy, KQ6RS

SDDXC DX STANDINGS

By *Glenn, AI6RR*



Standings are always available on the SDDXC website at
[San Diego DX Club \(sddxc.org\)](http://San Diego DX Club (sddxc.org))

By *Glenn, AI6RR*

There will be a postage rate increase for both domestic and international mail on July 10, 2022.

Here are the expected rates:

July 2022 First-Class Mail Prices		
First-Class Mail	Current Price	Proposed Price
One-ounce letter, domestic	\$0.58	\$0.60
Single-piece letter, additional ounce	\$0.20	\$0.24
Metered mail 1-ounce	\$0.53	\$0.57
Postcard stamp	\$0.40	\$0.44
One-ounce letter, international	\$1.30	\$1.40

SDDXC Contest Results

By John, K6AM



SDDXC RESULTS 2021 ARRL SWEEPSTAKES CW CONTEST

CLASS	CALL	SCORE	QSO'S	MLTS	FINISH
SO - U	N5ZO	223,272	1,329	84	#1 SW DIV, #2 US/VE
MS - HP	NX6T (ops K4RB N6CY N6KI N6NC WM6Y WQ6X	183,624	1,093	84	#3 SW DIV, #8 US/VE
SO - LP	KI6RRN	178,616	1,076	83	#1 SW DIV, #5 US/VE
SO - U	NC6K	119,520	720	83	#2 SW DIV
SO - LP	WN6K (SK)	98,072	598	82	#3 SW DIV
SO - LP	K6NA	6,864	78	44	

By John, K6AM

From the Editor

By: Bob, K9RHY

QRO Oh oh oh

Since the XYL and I now share the family cooking duties, I clicked onto YouTube looking for a tasty dinner recipe. After finding the content I was looking for, YouTube offered me several videos about topics that might be of interest to me. One of the videos was about the Heathkit SB220 linear amplifier. Having built and operated an SB220 for more years than I choose to recollect, I was interested in checking out this video.

Surprise, surprise. The video was about modifying the SB220 to operate on the 27MHz Citizen's Band (CB) frequencies. This surprised me because I thought CB operators were restricted to a maximum power of five (5) watts on 22 or 23 discrete channels.



INTERNATIONAL'S NEW
TRANSCIVER
at home...work...or play here is
2-WAY RADIO for everyone!

For the Class "D" CITIZENS BAND
The new class "D" citizens band is a new band of frequencies in the 27 megacycle range set aside by the FCC in Sept. 1958 for citizens radio service.
LICENSE WITHOUT EXAMINATION
Any U. S. citizen can be licensed to operate a class "D" radio station by applying to the FCC on FCC Form 9050.

3 MODELS
CUSTOM, 117V AC, all channel receiver \$94.95
DELUXE, 117V AC or 6/12V DC 124.50
COMMAND, 117V AC or 6/12V DC 149.95
fixed channel receiver

MEETS ALL FCC REQUIREMENTS

FOR BUSINESS Ideal for office-to-field communication. Also for office to trucks operating within restricted area or for office and factory bases.

FOR THE FARM The solution to fast communication from the farm house to the field. Wonderful in an emergency.

FOR SPORTS From ship-to-shore or from base camp to the point of the hunt... an expensive necessity for any sport.

FOR THE HOME From the kitchen to the den, workshop or children's room... the Transceiver will save you many steps.

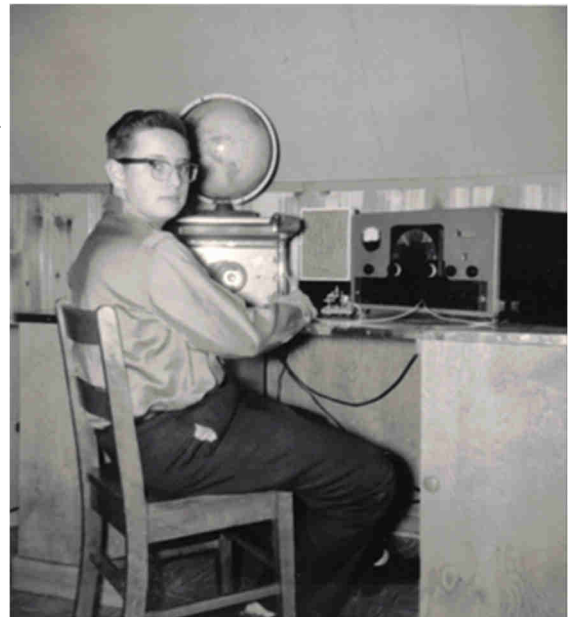
SEND FOR FREE BROCHURE
INTERNATIONAL CRYSTAL MFG. CO., INC.
18 N. Lee
Oklahoma City, Okla.

Dept. CO, International Crystal Mfg. Co., Inc.
18 N. Lee,
Oklahoma City, Okla.
GENTLEMEN:
Please send me my copy of your free brochure on the Transceiver. Also your new 1959 Catalog.
NAME _____
ADDRESS _____
CITY & STATE _____

On September 11, 1958 hams lost the 11-meter band when it was taken over by the citizens band at 27 MHz. 23 channels were available at the time; the first 22 were taken from the former amateur radio service 11-meter band, and channel 23 was shared with radio-controlled devices.

The original FCC output power limitation for CB radios was "5 watts DC input to the final amplifier stage", which was a reference to the earlier radios equipped with tubes. With solid state radios becoming more common in the 1970s, the FCC revised this

specification at the same time the authorized channels were increased to 40. The current specification is simply "4 watts output (AM) or 12 watts output (SSB)" as measured at the antenna connector on the back of the radio.



Your Editor operating his Viking Valiant and NC303 at his Chicago QTH after losing the 11 meter ham band to the new citizen's band.



K9RHY 1960's Viking Valiant showing 11 meter band and VFO settings

Intrigued by the SB220 video, I searched YouTube for additional "CB amplifiers". The results were eye-opening.

Try it yourself. Like myself, you'll find dozens of videos describing construction and usage of linear amplifiers that

would make many of us DXers drool. These amps are typically homebrew and carry names like "Crusher", "Ghostrider", "Mr BBI", "JTG Built", "Gump Built", "Maverick", "Warrior", "Wildfire", "Wizard Built", "Hopper Built", "Megawatt", "Varmint" and many more.

Some of these amps would bring a smile to the faces of DXers who longed for a bit more "oomph" when in a pileup for a new one. One of the content posters on YouTube showed a video of Mr. Box Builder Idaho (BBI), a prominent internet personality, buying and bringing home a pair of EIMAC 3CX40000A7's from Japan.



EIMAC 3CX40000A7 waiting for installation in BBI amplifier

These monster ceramic triodes each highlight 40,000 watts of plate dissipation and can be driven to a rocking 76KW of DC output with a plate voltage of 12,000 VDC and a plate current of 9 A. The power supply needed to feast this beast would require as many watts as a high-rise office building. THAT, my friends, is QRO! I can only guess and wonder what BBI is going to do with these monsters.



You may ask yourself why anyone would need amplifiers capable of delivering 5, 10, 20 or more KW of CB power to the antenna. The answer is to BE LOUD! What a surprise! CBers have their own DX clubs, QSL cards, contests, DX clusters, awards and more.

In addition, CBers build (typically transistorized) stations equipped with heavy-duty electrical systems to support high power mobile installations used in “shootouts” that are not unlike pileups in which operators compete on a single frequency to see who is loudest at a distant location. (Sounds familiar!)

CB DX isn’t limited to the USA. In other parts of the world 27MHz is popularly known as the “Freeband” where anything goes.

So I ask again, why would anyone need multiple KW of talk power when the legal limit is just a small fraction of that amount? As DXers, we know the answer. Not only to be loud but to be the LOUDEST. As some say, life is too short for QRP.

The next couple of pages show a mini-compilation of some of the tubes used by 11 meter “DX enthusiasts”.

73 and Good DX,

Bob, K9RHY

Tube Type	Mfgr	Quantity	Plate VDC	Plate Current	Power Output	Picture
3-1000Z/8164	EIMAC	1	6 KV	700 MA	3KW	
3CX15000A7	EIMAC, Svetlana	1	8 KV	5.0 A	25KW DC, 50KW PEP	
3CX1500/8877	EIMAC, Svetlana	1	4 KV	1.0 A	2.6KW	
3-500Z	Many	1 to 6	3 KV	300 MA (each)	6KW PEP	

Tube Type	Mfgr	Quantity	Plate VDC	Plate Current	Power Output	Picture
3CX3000A7	EIMAC, Svetlana	1 to 2	5 KV	2.5 A (each)	30KW PEP	
4CX250B/7203	EIMAC	1 to 2	2 KV	400 MA (each)	3.2KW PEP	
3CPX5000A7	EIMAC, Svetlana	1	6.5 KV	67 A	50KW	
3CX40000A7	EIMAC, Svetlana	1	12 KV	16 A	76KW	

PS: Mr. BBI gets his comeuppance:

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

August 23, 2017

Luke Miller
d/b/a BBI Amps
(Address withheld)
(Address withheld)

**Re: WARNING NOTICE
EB-FIELDNER-17-00024801**

Dear Mr. Miller:

It has come to the attention of the Federal Communications Commission that BBI Amps is marketing unauthorized radio frequency devices in violation of Section 302(b) of the Act¹ and Section 2.815(b) of the Commission's Rules.²

Federal law requires that radio frequency devices must be certified in accordance with the Commission's technical standards before they can be marketed in the United States. Section 302(b) of the Act provides that "[n]o person shall manufacture, import, sell, offer for sale, or ship devices or home electronic equipment and systems, or use devices, which fail to comply with regulations promulgated pursuant to this section."³ Section 2.815(b) of the Commission's Rules provides that external radio frequency power amplifiers capable of operation on frequencies below 144 MHz may not be offered for sale unless they have first been authorized in accordance with the Commission's certification procedures.⁴ Section 2.815(b)(1) of the Rules prohibits persons from offering for sale any external radio frequency power amplifier⁵ that is capable of amplification in the frequency bands between 26-28 MHz.⁶

In particular, the Commission received a complaint that BBI Amps, an on-line retailer of Citizen Band (CB) radios, linear amplifiers, and radio accessories, was selling CB linear amps. Based upon the information provided in the complaint, it appears that BBI Amps violated Section 302(b) of the Act and Section 2.815(b) of the Rules by marketing and offering for sale unauthorized radio frequency devices that do not have valid

¹ 47 U.S.C. § 302(b).

² 47 C.F.R. § 2.815(b).

³ 47 U.S.C. § 302(b).

⁴ 47 C.F.R. § 2.815(b).

⁵ An external radio frequency power amplifier is defined as "any device which, (1) when used in conjunction with a radio transmitter as a signal source is capable of amplification of that signal, and (2) is not an integral part of a radio transmitter as manufactured." See 47 C.F.R. § 2.815(a).

⁶ *Id.*



FCC certifications and, to the extent that these devices operate in the frequency bands between 26-28 MHz, are not eligible to received FCC certification.⁷

**ANY UNAUTHORIZED SALE OF THESE RADIO DEVICES MUST
CEASE IMMEDIATELY.**

You have ten (10) days from the date of receipt of this warning to respond to this office. The response must contain a statement of the specific action(s) taken to ensure compliance with the Commission's rules and should include a time line for completion of any pending corrective action(s). **You are directed to support your response with a signed and dated affidavit or declaration under penalty of perjury, verifying the truth and accuracy of the information submitted in your response.** Your response should be sent to: Federal Communications Commission, Laura Smith, Esq., 1270 Fairfield Road, Gettysburg, PA 17325 and reference the listed case number.

If, after receipt of this Warning Notice, BBI Amps again violates Section 302(b) of the Act or Section 2.815(b) of the Rules by engaging in conduct of the type described herein, it may be subject to severe penalties, including monetary forfeiture (fines).⁸

In an inquiry of this type we are required to notify you that under the Privacy Act of 1974, 5 U.S.C. § 552a(e)(3), the Commission's staff will use all relevant information before it, including information you disclose in your reply, to determine what, if any, enforcement action is warranted in this matter.

Sincerely,

Laura L. Smith, Esq.
Special Counsel
Spectrum Enforcement Division
Enforcement Bureau

⁷ 47 U.S.C. § 302(b); 47 C.F.R. § 2.815(b).

⁸ Fines normally range from \$7,500 to \$10,000.

By: Bob, K9RHY

WN6K Silent Key— a Respectful Memoriam

Thanks to Jim, K6ZH for passing along these thoughtful comments and thanks to Ken, K6WT for documenting the honors rightfully bestowed on a great fellow DXer and SDDXC member.

"I've known Paul since the '70s when his call was WA6EJL and we were both members of the Mission Trail Net, a 75 meter traffic net.

Over the years, he and I have often been toe-to-toe in contests as LP entries, especially in CW Sweepstakes. But his butt-in-seat time always exceeded mine, and hence he usually won!

And he did this in virtually every contest you can think of, including some you do NOT normally think of, including JIDX, BARTG, etc. But he read a lot of books while slogging his way through various contests! It was always fun to read his post-contest reports which included the books he finished, or was working on!

I cannot imagine how many contest awards he has accumulated, or if he even cared. But he was a competitor!

I recall him mentoring his Grandson Dylan who I'm pretty sure got his license.

And for years Paul would drive Harry W6YOO (sk) to San Diego DX Club meetings, month after month, because Harry could no longer drive.

RIP and 73, my friend!

Jim K6ZH

This from Paul Dorey's (WN6K) daughter when Jim sent his condolences:

"Good morning.

My dad passed away at 11:40 last night. It was very peaceful and we were all with him. We are so thankful he is no longer in pain.

Thank you! Ham Radio was his 2nd love to my Mom for sure!

Thank you for your friendship and for sharing his love and passion for the ham! Would you please pass the news along to any who may not know? I tried to text the contacts I had from him as he gave me a list to inform.

I will also share the plans for his memorial once we have them. He wants to be intern at Miramar and they let us know they are a month out right now.

Thank you for your kind words!

WN6K Memorial Service Picture Gallery

<https://lightroom.adobe.com/shares/d655d1367e564631b637a419c354991e>



